

FASTA searches a protein or DNA sequence data bank
version 3.3t05 March 30, 2000

Please cite:
W.R. Pearson & D.J. Lipman PNAS (1988) 85:2444-2448

```
/tmp/fastaCAAygaWej: 995 aa
>SEQ ID NO:2
vs /tmp/fastaDAAzgaWej library
searching /tmp/fastaDAAzgaWej library
```

1008 residues in 1 sequences

FASTA (3.34 January 2000) function [optimized, BL50 matrix (15:-5)] ktup: 2
join: 39, opt: 27, gap-pen: -12/ -2, width: 16

Scan time: 0.034 opt
The best scores are:
M13699 ACCESSION:M13699 NID: gi 180255 gb M13699. (1008) 2671

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M13699 ACCESSION:M13699 NID: gi 180255 gb M13699.1 HUM (1008 aa)
>>M13699 ACCESSION:M13699 NID: gi 180255 gb M13699.1 HUM (1008 aa)
>> initn: 1414 init1: 972 opt: 2671
Smith-Waterman score: 3980; 57.002% identity in 1014 aa overlap (1-992:1-1008)
```

	10	20	30	40	50	
SEQ	MKILILGIFLFLCSSPGWAIDRHCYIGIEESIWNLYAPSGKNMLNEKPFSEDL				---FLQ	
M13699	MKILILGIFLFLCSTPAWAKEKHYYIGIIETTWDYA				---SDHGEKKLISVDTEHSNIYLQ	
	10	20	30	40	50	
SEQ	GGQARKSFVFKKALYFQYTDNTFQRRIIEKPSWLGFGLGPMIKAETGDFIYVHVKNNASRAY					
M13699	NGPDRIGRLYKKALYLOQTDETFRRTIEKPVWLGFGLGPIIKAETGDKVYVHLKNLASRPY					
	60	70	80	90	100	110
SEQ	SYHPHGLTYSKENEAHGAIYPDNTTGLQKEVEYLEPGKQYTYKWWYVEEHQGP					NSNCV
M13699	TFHSHHGITYYKEHE--GAIYPDNTTDFQRADDKVYPGEQYT					YMLLATEEQSPGEGDGNCV
	120	130	140	150	160	170
SEQ	TRIYHSHIDTARDVASGLIGPLILTCKRGTLNGDTEKDIDRSSFLMFSTTDESRSWYSDEN					
M13699	TRIYHSHIDAPKDIASGLIGPLIICKKDSLDEKEKEKHIDREFVVMFSVVDENFSWYLEDN					
	180	190	200	210	220	230
SEQ	IRAF-TESGKINTSDPRFEESMSMQSINGYIYGNLPNLTMCAEDRVQWYFVG					GGVADIH
M13699	IKTYCSEPEKVDKDNEFQESNRMYSVNGYTFGSLPGLSMCAEDRVKWYLFGMGNEVDVH					
	240	250	260	270	280	290
SEQ	PVYLRGQTLISRNRHKDTIMLFPSLEDAFMVAKAPGVWMLGCQ					---IHESMQAFFKVS
M13699	AAFFHGQALTNKNYRIDTINLFPATLFDAYMVAQNPG					EWMLSCQNLNLKAGLQAFFQVQ
	300	310	320	330	340	350

	360	370	380	390	400	410
SEQ	NCQKPSTEAFVTGTHVIHYYIAAKEILWNYAPSGIDFFTKNLTAAGSKSQLFFERSPTR					
M13699	ECNKSSSKDNIRGKHVRHYYIAAEIIIWNYAPSGIDIFTKENLTAPGSDSAVFFEQQGTR					
	360	370	380	390	400	410
	420	430	440	450	460	
SEQ	IGGYKKLIYREYTDASFQTQKAR---EEHLGILGPVFKAEVGQTIKITFYNNASLPLSI					
M13699	IGGSYKKLVYREYTDASFTRKERGPEEEHLGILGPVIWAEVGDTIRVTFHNGAYPLSI					
	420	430	440	450	460	470
	470	480	490	500	510	520
SEQ	QPPGLHYNKSNEGLFYE---TPGG-STPPPSSHVSPGTTFVYTWEVPKDVGPTSTDPNCL					
M13699	EPIGVRFNKNNEGTYYSPNYNPQSRSVPPSASHVAPTETFTYEWTVPKEVGPTNADPVCL					
	480	490	500	510	520	530
	530	540	550	560	570	580
SEQ	TWFYSSVNGKKDINSGLLGPLLICRNGSLGDDGKQKGVDKEFYLLATIFDENESNLLDE					
M13699	AKMYYSAVDPTKDIFTGLIGPMKICKKGS LHANGRQKDVKDEFYLPTVFDENESLLED					
	540	550	560	570	580	590
	590	600	610	620	630	640
SEQ	N-RTFITEPENIDKEDTDCQASNKMYSINGYMYGNLPGLDTCLGDNVLWHVFSVGSVEDL					
M13699	NIRMFTTAPDQVDKEDEDFAQESNKMHSMNGFMYGNQPGLTMCKGDSVVWYLF SAGNEADV					
	600	610	620	630	640	650
	650	660	670	680	690	700
SEQ	HGIYFSGNTFTSLGARRDTIPMFPYTSQTLMPDSIGTFDLVCMTIKHNLGGMKHKYHV					
M13699	HGIYFSGNTYLWRGERRTDTANLFPQTSLTLHMWPDTEGTFNVECLTDHYTGGMKQKYTV					
	660	670	680	690	700	710
	710	720	730	740	750	760
SEQ	RQCGKPNPDQTQYQEEKIIITIAAEEMEDYSPSRKWENELHHLRRRENQTSMYVDRSGTL					
M13699	NQCRRQSEDSTFYLGERTYY-IAAVEVEWDYSPQREWEKELHHLQEONVSNAFLDKGEFY					
	720	730	740	750	760	770
	770	780	790	800	810	820
SEQ	LGSKYKKVLYRQYDDNTFTNQTKRNEGEKHLDILGPLILLNPGQIIQIIFKNKAARPYSI					
M13699	IGSKYKKVVYRQYTDSTFRVPVERKAEEEHLGILGPQLHADVGDKVKIIIFKNMATRPYSI					
	780	790	800	810	820	830
	830	840	850	860	870	880
SEQ	HAHGVKTNNSTVVPTQPGEIQIYTWQIPDRTGPTSLDFECIPWFYYSTVSVAKDLHSGLV					
M13699	HAHGQTESSTVTPTLPGETLTYVWKIPERSGAGTEDSACIPWAYYSTVDQVKDLYSGLI					
	840	850	860	870	880	890

	890	900	910	920	930
SEQ	GPLSVCR	---KDINPN	-IVHRLHFMIFDENESWYFEDSINTYASKPNKVDKENDNFQL		
	:::	:::	:::	:::	:::
M13699	GPLIVCRRPYLKVFNP	RKRLEFALLFLVFDEN	ESWYLDNIKYSDHPEKVN	KDDEEFIE	
	900	910	920	930	940
	950	960	970	980	990
SEQ	SNQMHAINGRLFGNNQG	ITFHVGDV	NWYLIGIGNEADLHTV	HFGHSFEYKKYLI	
	:::	:::	:::	:::	:::
M13699	SNKMHAI	NGRMFGNLQGLTMHG	DEVNWYLMGMGNEIDLHTV	HFGHSFQYKHR	
	960	970	980	990	1000

995 residues in 1 query sequences

1008 residues in 1 library sequences

Scomplib [version 3.3t05 March 30, 2000]

start: Wed Sep 18 11:18:07 2002 done: Wed Sep 18 11:18:08 2002

Scan time: 0.034 Display time: 1.433

Function used was FASTA